

U.S.S.N. 09/415,781
Filed: October 8, 1999
AMENDMENT &
RESPONSE TO OFFICE ACTION

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A coated fuel cell bipolar plate comprising:
 - a metal plate;
 - an electrically conductive coating over the metal plate, wherein the electrically conductive coating is a graphite emulsion; and
 - a corrosion resistant overcoating formed over the electrically conductive coating, the corrosion resistant overcoating including graphite;
wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate.
2. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the metal plate comprises aluminum.
3. (Canceled).
4. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the electrically conductive coating includes graphite particles in an organic suspension.
5. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, where the corrosion resistant overcoating includes exfoliated graphite.
6. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes porosities that are filled by the electrically conductive coating.

U.S.S.N. 09/415,781
Filed: October 8, 1999
AMENDMENT &
RESPONSE TO OFFICE ACTION

7. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is a foil.
8. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes particulate graphite flakes which have been processed through an intercalation process.
9. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is electrically conductive.
10. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is hydrophobic.
11. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is anisotropic.
12. (Currently Amended) A coated fuel cell bipolar plate as claimed in claim 1 comprising:
a metal plate;
an electrically conductive coating over the metal plate; and
a corrosion resistant overcoating formed over the electrically conductive coating,
the corrosion resistant overcoating including graphite;
wherein the electrically conductive coating bonds the corrosion resistant
overcoating to the metal plate, and wherein the corrosion resistant overcoating has a thickness
approximately between 0.04 and 1.0 millimeters.
- 13-22. (Canceled).

U.S.S.N. 09/415,781
Filed: October 8, 1999
AMENDMENT &
RESPONSE TO OFFICE ACTION

23. (Previously Presented) A coated fuel cell bipolar plate comprising:
- a metal plate including an outer surface;
 - an electrically conductive coating over the outer surface; and
 - an overcoating formed over the electrically conductive coating, the overcoating including graphite, the overcoating having a thickness approximately between 0.04 and 1.0 millimeters.

24-25. (Canceled).